

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/528,989
Source: PCF
Date Processed by STIC: 7/3/06

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,989

DATE: 07/03/2006

TIME: 12:25:53

Input Set : A:\2005-10-19_0933-0238P.ST25.txt
 Output Set: N:\CRF4\07032006\J528989.raw

3 <110> APPLICANT: VALTANEN, Heli et. al.
 5 <120> TITLE OF INVENTION: METHOD FOR DESIGNING PEPTIDES
 7 <130> FILE REFERENCE: 0933-0238PUS1
 9 <140> CURRENT APPLICATION NUMBER: US 10/528,989
 10 <141> CURRENT FILING DATE: 2005-03-24
 12 <150> PRIOR APPLICATION NUMBER: PCT/FI2003/000705
 13 <151> PRIOR FILING DATE: 2003-09-29
 15 <160> NUMBER OF SEQ ID NOS: 27
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 30
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Synthetic intein Fwd SapI primer
 27 <400> SEQUENCE: 1
 28 cctttctgtcttccaaacgc cgacggggct 30
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 30
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Synthetic intein Rev PstI primer
 39 <400> SEQUENCE: 2
 40 actttcaacc tgcaaggtaacc cagcggccccc 30
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 59
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Synthetic oligonucleotide encoding SEQ ID NO: 10
 51 <400> SEQUENCE: 3
 52 ggtgggtgctcttccaaactgt acgaccatttac ggggatattac tttatgttaa ctgcaggcg 59
 55 <210> SEQ ID NO: 4
 56 <211> LENGTH: 15
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Synthetic primer used to convert SEQ ID NO: 3 to double-stranded form
 63 <400> SEQUENCE: 4
 64 cgcctgcagt taaca 15
 67 <210> SEQ ID NO: 5
 68 <211> LENGTH: 75

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,989

DATE: 07/03/2006

TIME: 12:25:53

Input Set : A:\2005-10-19 0933-0238P.ST25.txt
Output Set: N:\CRF4\07032006\J528989.raw

69 <212> TYPE: DNA
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Synthetic degenerate oligonucleotide used in the cloning of
 the intein-
 74 peptide fusions
 76 <400> SEQUENCE: 5
 77 ggtggttgct cttccaacgg ccggccvavva vtatvavggc tgtaccaccc atttacttta 60
 78 tgttaactgc aggcg 75
 81 <210> SEQ ID NO: 6
 82 <211> LENGTH: 17
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Artificial Sequence
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: Transposon specific primer
 89 <400> SEQUENCE: 6
 90 atcagcggcc gcgatcc 17
 93 <210> SEQ ID NO: 7
 94 <211> LENGTH: 21
 95 <212> TYPE: DNA
 96 <213> ORGANISM: Artificial Sequence
 98 <220> FEATURE:
 99 <223> OTHER INFORMATION: Transposon specific primer
 101 <400> SEQUENCE: 7
 102 ttattcggc gaaaaggatc c 21
 105 <210> SEQ ID NO: 8
 106 <211> LENGTH: 4
 107 <212> TYPE: PRT
 108 <213> ORGANISM: Unknown
 110 <220> FEATURE:
 111 <223> OTHER INFORMATION: Peptide derived from phage
 113 <400> SEQUENCE: 8
 114 Ala Asp Gly Ala
 115 1
 118 <210> SEQ ID NO: 9
 119 <211> LENGTH: 4
 120 <212> TYPE: PRT
 121 <213> ORGANISM: Unknown
 123 <220> FEATURE:
 124 <223> OTHER INFORMATION: Peptide derived from phage
 126 <400> SEQUENCE: 9
 127 Gly Ala Ala Gly
 128 1
 131 <210> SEQ ID NO: 10
 132 <211> LENGTH: 10
 133 <212> TYPE: PRT
 134 <213> ORGANISM: Unknown
 136 <220> FEATURE:
 137 <223> OTHER INFORMATION: Recombinant peptide prepared by the intein system
 139 <400> SEQUENCE: 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,989

DATE: 07/03/2006

TIME: 12:25:53

Input Set : A:\2005-10-19_0933-0238P.ST25.txt
 Output Set: N:\CRF4\07032006\J528989.raw

140 Cys Thr Thr His Trp Gly Phe Thr Leu Cys
 141 1 5 10
 144 <210> SEQ ID NO: 11
 145 <211> LENGTH: 10
 146 <212> TYPE: PRT
 147 <213> ORGANISM: Unknown
 149 <220> FEATURE:
 150 <223> OTHER INFORMATION: Non-cyclic synthetic control peptide
 152 <400> SEQUENCE: 11
 153 Ser Thr Thr His Trp Gly Phe Thr Leu Ser
 154 1 5 10
 157 <210> SEQ ID NO: 12
 158 <211> LENGTH: 10
 159 <212> TYPE: PRT
 160 <213> ORGANISM: Artificial Sequence
 162 <220> FEATURE:
 163 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
 CTT-peptide
 165 <400> SEQUENCE: 12
 166 Cys Ala Thr His Trp Gly Phe Thr Leu Cys
 167 1 5 10
 170 <210> SEQ ID NO: 13
 171 <211> LENGTH: 10
 172 <212> TYPE: PRT
 173 <213> ORGANISM: Artificial Sequence
 175 <220> FEATURE:
 176 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
 CTT-peptide
 178 <400> SEQUENCE: 13
 179 Cys Thr Ala His Trp Gly Phe Thr Leu Cys
 180 1 5 10
 183 <210> SEQ ID NO: 14
 184 <211> LENGTH: 10
 185 <212> TYPE: PRT
 186 <213> ORGANISM: Artificial Sequence
 188 <220> FEATURE:
 189 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
 CTT-peptide
 191 <400> SEQUENCE: 14
 192 Cys Thr Thr Ala Trp Gly Phe Thr Leu Cys
 193 1 5 10
 196 <210> SEQ ID NO: 15
 197 <211> LENGTH: 10
 198 <212> TYPE: PRT
 199 <213> ORGANISM: Artificial Sequence
 201 <220> FEATURE:
 202 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
 CTT-peptide
 204 <400> SEQUENCE: 15
 205 Cys Thr Thr His Ala Gly Phe Thr Leu Cys
 206 1 5 10
 209 <210> SEQ ID NO: 16
 210 <211> LENGTH: 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,989

DATE: 07/03/2006

TIME: 12:25:53

Input Set : A:\2005-10-19 0933-0238P.ST25.txt
 Output Set: N:\CRF4\07032006\J528989.raw

211 <212> TYPE: PRT
 212 <213> ORGANISM: Artificial Sequence
 214 <220> FEATURE:
 215 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide
 217 <400> SEQUENCE: 16
 218 Cys Thr Thr His Trp Ala Phe Thr Leu Cys
 219 1 5 10
 222 <210> SEQ ID NO: 17
 223 <211> LENGTH: 10
 224 <212> TYPE: PRT
 225 <213> ORGANISM: Artificial Sequence
 228 <220> FEATURE:
 229 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide
 231 <400> SEQUENCE: 17
 232 Cys Thr Thr His Trp Gly Ala Thr Leu Cys
 233 1 5 10
 236 <210> SEQ ID NO: 18
 237 <211> LENGTH: 9
 238 <212> TYPE: PRT
 239 <213> ORGANISM: Artificial Sequence
 241 <220> FEATURE:
 242 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide
 244 <400> SEQUENCE: 18
 245 Cys Thr Thr His Trp Gly Phe Ala Leu
 246 1 5
 249 <210> SEQ ID NO: 19
 250 <211> LENGTH: 10
 251 <212> TYPE: PRT
 252 <213> ORGANISM: Artificial Sequence
 254 <220> FEATURE:
 255 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide
 257 <400> SEQUENCE: 19
 258 Cys Thr Thr His Trp Gly Phe Ala Leu Cys
 259 1 5 10
 262 <210> SEQ ID NO: 20
 263 <211> LENGTH: 10
 264 <212> TYPE: PRT
 265 <213> ORGANISM: Artificial Sequence
 267 <220> FEATURE:
 268 <223> OTHER INFORMATION: Description of Artificial Sequence:
 269 CTT-peptide with a tryptophan analogue at position 5
 271 <220> FEATURE:
 272 <221> NAME/KEY: misc_feature
 273 <222> LOCATION: (5)..(5)
 274 <223> OTHER INFORMATION: Xaa at position 5 is 5-OH-Trp, 5-F-Trp or 6-F-Trp
 276 <400> SEQUENCE: 20
 W--> 277 Cys Thr Thr His Xaa Gly Phe Thr Leu Cys
 278 1 5 10
 281 <210> SEQ ID NO: 21

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,989

DATE: 07/03/2006

TIME: 12:25:53

Input Set : A:\2005-10-19 0933-0238P.ST25.txt
Output Set: N:\CRF4\07032006\J528989.raw

282 <211> LENGTH: 10
 283 <212> TYPE: PRT
 284 <213> ORGANISM: Artificial Sequence
 286 <220> FEATURE:
 287 <223> OTHER INFORMATION: Description of Artificial Sequence: Control sequence
 289 <400> SEQUENCE: 21
 290 Cys Glu Arg Gly Gly Leu Glu Thr Ser Cys
 291 1 5 10
 294 <210> SEQ ID NO: 22
 295 <211> LENGTH: 9
 296 <212> TYPE: PRT
 297 <213> ORGANISM: Artificial Sequence
 299 <220> FEATURE:
 300 <223> OTHER INFORMATION: Description of Artificial Sequence: Control sequence
 302 <400> SEQUENCE: 22
 303 Cys Pro Cys Phe Leu Leu Gly Cys Cys
 304 1 5
 307 <210> SEQ ID NO: 23
 308 <211> LENGTH: 17
 309 <212> TYPE: PRT
 310 <213> ORGANISM: Artificial Sequence
 312 <220> FEATURE:
 313 <223> OTHER INFORMATION: Description of Artificial Sequence:
 314 CTT-peptide with additional hydrophilic amino acids
 316 <220> FEATURE:
 317 <221> NAME/KEY: misc_feature
 318 <222> LOCATION: (3)..(4)
 319 <223> OTHER INFORMATION: Xaa at positions 3 and 4 is any hydrophilic amino acid
 321 <220> FEATURE:
 322 <221> NAME/KEY: misc_feature
 323 <222> LOCATION: (6)..(6)
 324 <223> OTHER INFORMATION: Xaa at position 6 is any hydrophilic amino acid
 327 <400> SEQUENCE: 23
 W--> 328 Gly Arg Xaa Xaa Tyr Xaa Gly Cys Thr Thr His Trp Gly Phe Thr Leu
 329 1 5 10 15
 331 Cys
 335 <210> SEQ ID NO: 24
 336 <211> LENGTH: 17
 337 <212> TYPE: PRT
 338 <213> ORGANISM: Artificial Sequence
 340 <220> FEATURE:
 341 <223> OTHER INFORMATION: Description of Artificial Sequence:
 342 CTT-peptide with additional hydrophilic amino acids
 344 <400> SEQUENCE: 24
 345 Gly Arg Glu Asn Tyr His Gly Cys Thr Thr His Trp Gly Phe Thr Leu
 346 1 5 10 15
 348 Cys
 351 <210> SEQ ID NO: 25
 352 <211> LENGTH: 9

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/03/2006
PATENT APPLICATION: US/10/528,989 TIME: 12:25:54

Input Set : A:\2005-10-19_0933-0238P.ST25.txt
Output Set: N:\CRF4\07032006\J528989.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; Xaa Pos. 5
Seq#:23; Xaa Pos. 3,4,6
Seq#:25; Xaa Pos. 5
Seq#:26; Xaa Pos. 1,5,6

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:25; Line(s) 362

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/528,989

DATE: 07/03/2006

TIME: 12:25:54

Input Set : A:\2005-10-19 0933-0238P.ST25.txt
Output Set: N:\CRF4\07032006\J528989.raw

L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0